

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D119-796 REV. E OR EARLIER AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D119-796 REV. 3 OR EARLIER

REF. TCCA STC: SH14-45  
REF. FAA STC: SR03504NY  
REF. EASA STC: 10052022  
REF. DGCA INDIA LOA: 07-09/2011-AED  
REF. ANAC STC: 2015S07-16  
REF. CAAP LOA: C-16-0221  
REF. CAAC VSTC: VSTC0757  
REF. RUSSIAN TC: CT316-A119

## PURPOSE:

The purpose of this Dart Service Instruction (DSI) is to provide customers with instructions to add the DSI 9774-011 Grounding Clamp Installation Kit on the D119-796-201/-203/-241/-251 Aft Crosstubes.

The components of the DSI 9774-011 Kit provide two additional grounding attachment points for the OEM grounding straps.

The D119-796-201/-203/-241 Crosstube Installation at CHG 005 and later and the D119-796-251 Crosstube Installation at CHG 004 and later will be supplied from Dart with the DSI 9774-011 Grounding Clamp Installation Kit installed.

## PROCEDURE:

- 1) In order to gain access, it may be necessary to remove the aft crosstube from the helicopter in accordance with Chapter 32.1 of ICA-D119-796.
- 2) Locate D5515-1 Grounding Clamps as shown in Figure 1 of this service instruction and mark location of the clamps on the crosstube.
- 3) Remove the crosstube finish (paint and primer) down to bare metal using a non abrasive paint stripper only in the areas where the D5515-1 Grounding Clamps will be installed. Touch up the affected area with electrically conductive chemical film material (Alodine 600) per MIL-C-5541.
- 4) Install the D5515-1 Grounding Clamps per Figure 2 of this service instruction and orient them so that they provide clear access to attach the A537A01AA01-0220 Cables, and so that they do not interfere with adjacent components. Torque the MS21042-3 Nuts to 12-15 in-lb (1.4-1.7 N-m). △ B
- 5) Carry out a resistance check between the D5515-1 Grounding Clamps and any unpainted section of the crosstube in accordance with AC43-13-1B Chapter 11. (Example: Check for resistance between crosstube cuff and D5515-1 Grounding Clamp. Adjust the D5515-1 Grounding Clamp if necessary to achieve a max resistance of 3 milliohms (mΩ)).
- 6) Completely seal all edges of the D5515-1 Grounding Clamps that meet with the crosstube using MIL-S-8802 Class B2 sealant to prevent moisture intrusion under the D5515-1 Grounding Clamps.
- 7) Touch up the finish on the crosstube and the D5515-1 Grounding Clamps as required per Item 5.3 of ICA-D119-796.
- 8) If the aft crosstube was removed, re-install in accordance with Chapter 32.2 of ICA-D119-796.
- 9) Fasten the A537A01AA01-0220 Cables to the D5515-1 Grounding Clamps on both sides of the aft crosstube using the hardware shown in Figure 2. Torque the MS21042-4 Nuts to 50-70 in-lb (5.6-7.9 N-m).  
**Note:** It is acceptable to enlarge the  $\varnothing 0.256$  (6.5mm) hole on the grounding clamp up to  $\varnothing 0.355$  (9mm) if necessary. Touch up the affected area with electrically conductive chemical film material (Alodine 600) per MIL-C-5541. △ B
- 10) Update aircraft log book to indicate installation of DSI 9774-011 Grounding Clamp Installation Kit.

## WEIGHT AND BALANCE:

There is a negligible weight and balance change associated with the installation of this kit.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 17.04.08  
CERT. NO.: SH14-45  
ISSUE NO.: 1

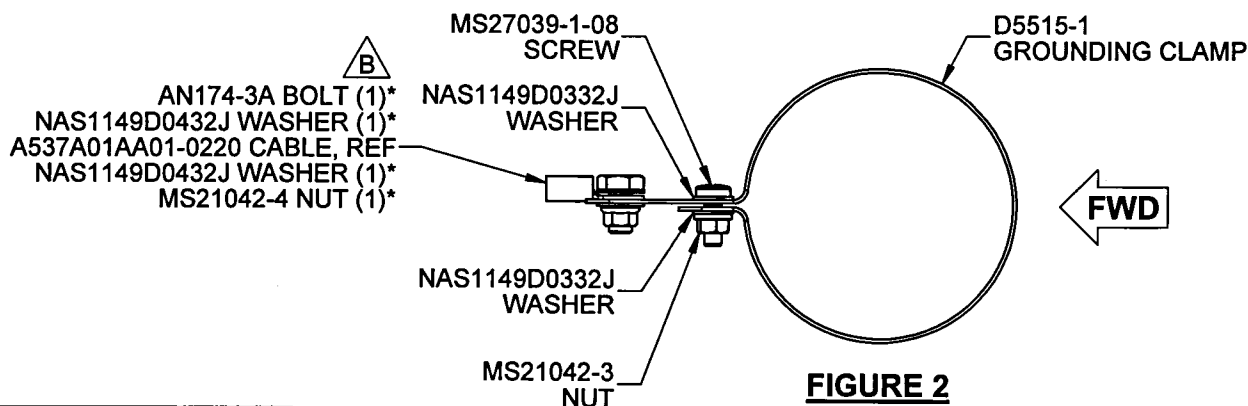
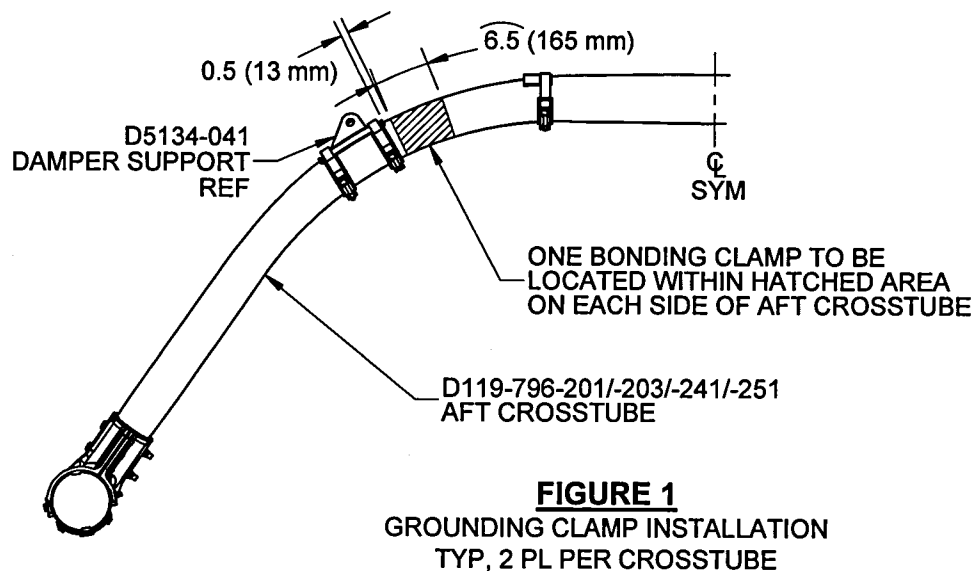
APPROVED

B	UPDATE NOTE 4 AND ADD NOTE 9; ADD AN174-3A, MS21042-4, AND NAS1149D0432J TO KIT; ADD REF TO A537A01AA01-0220 AND RELATED NOTE.	MB	17.04.08
A	NEW ISSUE (REF. PAR 17-580)	ML	17.02.10
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DRAWN	MB		
CHECKED	WM	DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9774	SHEET 1 OF 2
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	GROUNDING CLAMP INSTALL	NTS
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# PARTS LIST:

QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9774-011	GROUNDING CLAMP INSTALLATION KIT
2	D5515-1	GROUNDING CLAMP
2	AN174-3A	BOLT
2	MS21042-3	NUT
2	MS21042-4	NUT
2	MS27039-1-08	SCREW
4	NAS1149D0332J	WASHER
4	NAS1146D0432J	WASHER

B



\*PARTS MAY BE SUPPLIED BY INSTALLER B

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED  
BY: *[Signature]*  
D. SHEPHERD (DE # 02)

DATE: 17.04.08  
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DRAWN	MB		
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MFG. APPR.	N/A	DSI 9774	SHEET 2 OF 2
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